UNCLASSIFIED

AD NUMBER ADB249647 **NEW LIMITATION CHANGE** TO Approved for public release, distribution unlimited **FROM** Distribution authorized to U.S. Gov't. agencies only; Proprietary Info.; Jul 99. Other requests shall be referred to U.S. Army Medical Research and Materiel Command, 504 Scott St., Fort Detrick, MD 21702-5012. **AUTHORITY** USAMRMC ltr, 26 Aug 2002

ΑD			

GRANT NUMBER DAMD17-96-1-6266

TITLE:

Prevalence and Characterization of BRCA2 in Male Breast

Cancer Cases

PRINCIPAL INVESTIGATOR:

Dr. Susan L. Neuhausen

CONTRACTING ORGANIZATION: University of Utah

1471 East Federal Way

Salt Lake City, Utah 84102

REPORT DATE:

July 1999

TYPE OF REPORT:

Annual

PREPARED FOR: U.S. Army Medical Research and Materiel Command

Fort Detrick, Frederick, Maryland 21702-5012

DISTRIBUTION STATEMENT: Distribution authorized to U.S. Government agencies only (proprietary information, Jul 99). Other requests for this document shall be referred to U.S. Army Medical Research and Materiel Command, 504 Scott Street, Fort Detrick, Maryland 21702-5012.

The views, opinions, and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision unless so designated by other documentation.

NOTICE

USING GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA INCLUDED IN THIS DOCUMENT FOR ANY PURPOSE OTHER GOVERNMENT PROCUREMENT DOES NOT INANY THE FACT THE OBLIGATE THE U.S. GOVERNMENT. THAT GOVERNMENT FORMULATED OR SUPPLIED THE OTHER DATA DOES NOT LICENSE SPECIFICATIONS, OR HOLDER OR ANY OTHER PERSON OR CORPORATION; OR CONVEY ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY RELATE TO THEM.

LIMITED RIGHTS LEGEND

Award Number: DAMD17-96-1-6266 Organization: University of Utah

Those portions of the technical data contained in this report marked as limited rights data shall not, without the written permission of the above contractor, be (a) released or disclosed outside the government, (b) used by the Government for manufacture or, in the case of computer software documentation, for preparing the same or similar computer software, or (c) used by a party other than the Government, except that the Government may release or disclose technical data to persons outside the Government, or permit the use of technical data by such persons, if (i) such release, disclosure, or use is necessary for emergency repair or overhaul or (ii) is a release or disclosure of technical data (other than detailed manufacturing or process data) to, or use of such data by, a foreign government that is in the interest of the Government and is required for evaluational or informational purposes, provided in either case that such release, disclosure or use is made subject to a prohibition that the person to whom the data is released or disclosed may not further use, release or disclose such data, and the contractor or subcontractor or subcontractor asserting the restriction is notified of such release, disclosure or use. This legend, together with the indications of the portions of this data which are subject to such limitations, shall be included on any reproduction hereof which includes any part of the portions subject to such limitations.

THIS TECHNICAL REPORT HAS BEEN REVIEWED AND IS APPROVED FOR PUBLICATION.

J. Mishra

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing Instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reporats, 1215 Jefferson Davis Highway, Suite 1204. Arlington VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188). Washington, DC 20503.

1204, Arlington VA 22202-4302, and to the Office of	of Management and Budget, Paperwork	Reduction Project (0704-0188), Washington	on, DC 20503.
1. AGENCY USE ONLY (Leave Blank)	2. REPORT DATE July 1999	3. REPORT TYPE AND DAT Annual (15 June 98 - 18	
4. TITLE AND SUBTITLE Prevalence and Characterization	on of BRCA2 in Male Br	east Cancer Cases	5. FUNDING NUMBERS DAMD17-96-I-6266
6. AUTHOR(S) Dr. Susan L. Neuhausen		·	
7. PERFORMING ORGANIZATION N University of Utah Salt Lake City, Utah 84102	AME(S) AND ADDRESS(ES))	8. PERFORMING ORGANIZATION REPORT NUMBER
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) U. S. Army Medical Research and Materiel Command Fort Detrick, Frederick, MD 21702-5012			10. SPONSORING/MONITORING AGENCY REPORT NUMBER
11. SUPPLEMENTARY NOTES			
Distribution authorized to U.S. Go (proprietary information, Jul 99). document shall be referred to U.S and Materiel Command, 504 Scot	Other requests for this Army Medical Research	yland 21702-5012.	12b. DISTRIBUTION CODE

13. ABSTRACT (Maximum 200 words)

Male breast cancer (MBC) is rare, with an incidence rate of 0.5-1/100,000 per year. The objective of this grant is to study a series of unselected population-based MBC cases to characterize the role of *BRCA2* in MBC and to estimate the attributable risk of MBC due to *BRCA2* mutations. At the end of this third year of funding, we have collected DNA samples on 141 MBC cases and paraffin-embedded tissue on 21 of those. Of the 97 MBC cases with available family history data, 52 (54%) have a family history of breast cancer in first or second degree relatives. To detect germline mutations in *BRCA2*, single strand conformational analysis (SSCA) of the DNA samples is being performed for seventy-four amplicons spanning the entire coding region and intron/exon boundaries. All but one amplicon has been screened for mutations for the samples. We have identified frameshift, missense, silent, and non-coding mutations, and polymorphisms. We are currently examining whether the missence and non-coding mutations are likely polymorphisms. The actual mutations and estimated prevalence are unpublished, as yet, and are presented in the body of the progress report.

14. SUBJECT TERMS	BRCA2, male breast cancer, mutations, MBC		15. NUMBER OF PAGES
			16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION PAGE Unclassified	N OF 19. SECURITY CLASSIFICATION OFABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Limited

NSN 7540-01-280-5500

Standard Form 298 (Rev.2-89) Prescribed by ANSI Std. Z39-18 298-102

FOREWORD

Opinions, interpretations, conclusions and recommendations are those of the author and are not necessarily endorsed by the U.S. Army.

Where copyrighted material is quoted, permission has been obtained to use such material.

Where material from documents designated for limited distribution is quoted, permission has been obtained to use the material.

Citations of commercial organizations and trade names in this report do not constitute an official Department of Army endorsement or approval of the products or services of these organizations.

In conducting research using animals, the investigator(s) adhered to the "Guide for the Care and Use of Laboratory Animals", prepared by the Committee on Care and Use of Laboratory Animals of the Institute of Laboratory Resources, National Research Council (NIH Publication NO. 86-23, Revised 1985).

<u>5N</u> For the protection of human subjects, the investigator(s) adhered to policies of applicable Federal Law 45 CRF 46.

In conducting research utilizing recombinant DNA technology, the investigator(s) adhered to current guidelines promulgated by the National Institutes of Health.

In the conduct of research utilizing recombinant DNA, the investigator(s) adhered to the NIH Guidelines for Research Involving Recombinant DNA Molecules.

In the conduct of research involving hazardous organisms, the investigator(s) adhered to the CDC-NIH Guide for Biosafety in Microbiological and Biomedical Laboratories.

Sum L. Neuhausen
PI - Signature

Date

TABLE OF CONTENTS

Annual Progress Report DAMD17-96-1-6266

June 15, 1998 - June 15, 1999

	Page(s)
SF 298 - Report Documentation Page	
Foreword	3
Table of Contents	4
Introduction	5
Body	5
Conclusions	9
References	10

Annual Progress Report Grant DAMD-17-96-I-6266

Period: June 15, 1998-June 15, 1999

INTRODUCTION

Breast cancer is a rare disease in men, affecting approximately 0.1% over their lifetime, as compared to 12% in women. However, despite the difference in prevalence, male and female breast cancers are similar in presentation and response to treatment. In families with multiple cases of female breast cancer and a male breast cancer, we observed that these families were not linked to BRCA1 (Stratton et. al., 1994), the first gene found to predispose to breast cancer. Using these same families, we localized BRCA2 (Wooster et al., 1994), a second gene predisposing to breast cancer. BRCA2 was cloned in 1995 (Wooster et al., 1995; Tavtigian et al., 1996). We were interested in the proportion of male breast cancer (MBC) attributable to mutations in BRCA2 and estimated that 10-15% of male breast cancer could be caused by BRCA2 mutations. In a study of loss of heterozygosity (LOH) of markers spanning the BRCA2 gene, 16 of 24 (67%) MBC cases showed LOH in at least one of the two markers, suggesting a role for BRCA2 in the development and/or progression of MBC (Prechtel et al., 1998). Screening for mutations in BRCA2 in male breast cancer cases has been performed by several groups. Seven (21%) BRCA2 germline mutations were reported in a Swedish study of 34 MBC patients,. Of those seven cases, only one had a family history of breast cancer (Haraldsson et al., 1998). In a British study of 28 MBC cases, 2 (7%) deleterious mutations were identified (Mavraki et al., 1997). In a US study of 54 MBC cases, two (4%) cases had BRCA2 mutations, and one of them had a family history of breast cancer (Friedman et al., 1997). The remaining eight cases with a family history of breast and/or ovarian cancer did not have a mutation in either BRCA1 or BRCA2. In a study of 18 Hungarian male breast cancer cases, 6 of 18 (33%) had truncating mutations in BRCA2 and no mutations in BRCA1 (Csokay et al., 1999). Combining all four of these studies, the proportion of MBC cases, unselected for a family history of breast cancer, with a germline mutation in BRCA2 is 12.7%.

The objective of this grant (proposed prior to cloning of *BRCA2*) is to study MBC cases to characterize the role of *BRCA2* in MBC and to estimate the attributable risk of male breast cancer due to *BRCA2* germline mutations. This is a population-based study. The results to date are discussed below, as well as future work to be performed.

BODY

Our primary goals for the past year included continued ascertainment of additional male breast cancer cases and screening for mutations in the *BRCA2* gene.

Progress in ascertainment of male breast cancer cases (Technical objective 1 - tasks 1-4): During the past year, we continued to enroll MBC cases in Utah through the Utah Cancer Registry (UCR) and through the Wyoming Cancer Registry. Rapid-reporting of recently diagnosed cases resulted in ascertainment of 5 Utah cases in the last year. Two MBC cases from

Wyoming are participating, one has been sent a blood kit and questionnaire, and we are still trying to contact 8 men. The Colorado Cancer Registry and Idaho Cancer Registry have agreed to participate, but they have sent no request letters. We received IRB permission and posted our study on the website of a Male Breast Cancer Support Group, inviting all males who have had breast cancer to participate in our study. Four MBC cases have been recruited from the web site.

We currently have DNA samples from 141 MBC cases (Table 1). The age at diagnosis ranges from 28-93 years. Of the 94 MBC cases with family history data, 52% have a family history of breast cancer in at least one first degree relative. Questionnaires have been sent to 65 of the MBC cases we collected from Utah, Wyoming, or the WWW and 33 have been returned. Unfortunately, nine men have died since we obtained their blood samples.

Table 1. Source of male breast cancer cases.

Source	# Cases	+family history	- family history	Unknown family history
Univ of Utah	59	. 22	29	8
Wyoming	2	0	2	0
WWW site	4	2	2	0
Chicago	5	2	2	1
ICRF	40	4	0	36
MSKCC	27	17	10	0
Texas	2	0	0	2
Italy	2	2	0	0
Total	141	49	45	47

Status of Technical objective 2 (Tasks 5-7): Characterization of loss of heterozygosity (LOH). The original intent of this objective, designed prior to cloning *BRCA2*, was to classify the MBC cases as likely carrying a *BRCA1* or *BRCA2* mutation based on loss of chromosomal segments in the regions containing *BRCA1* and *BRCA2*. However, *BRCA2* was cloned prior to funding of the grant, so that we proceeded directly to screening for mutations in the MBC cases. We are still interested in this objective to correlate the LOH results with mutation screening results. However, we are waiting to acquire additional tissue blocks.

Status of Technical objective 3 (Tasks 8-10): Fine-structure haplotype construction and analysis. We have decided not to perform the tasks associated with this objective as it is not necessary because we can easily screen for mutations in *BRCA2*. When the grant was submitted, *BRCA2* had not yet been cloned, so it would have allowed us to begin characterizing individuals

THIS PAGE CONTAINS UNPUBLISHED DATA

as to the likelihood of carrying a mutation. However, when the grant was funded, *BRCA2* had been isolated so that we could begin mutation screening, which is more productive and efficient than performing the tasks related to Technical Objective 3.

Progress in screening for *BRCA2* mutations (Technical objective 4 - tasks 11-12). During the past year, we have screened the MBC set for mutations in *BRCA2*. Single strand conformational analysis (SSCA) was performed on 73 amplicons, with an average size of 250 base pairs and a maximum size of 300 base pairs. We are still working on amplifying the 3' end of exon 27 - several primer pairs have not worked. In Table 2, the results of the mutation screening are shown. One individual had three variants, two silent and 1 missense (all likely polymorphisms). These three variant may be in linkage disequilibrium. Ten frameshift mutations have been identified in 15 MBC cases, including 5 cases with the 6174delT founder mutation (Neuhausen et al., 1996).

Four missense mutations of unknown functional significance and three which are likely polymorphisms were identified. Observations which suggest that a missense mutation is not causal are: 1) the mutation is observed in a control group in equal or greater prevalence to an atrisk group; 2) there is not cosegregation of the variant and disease in a family with significant disease; 3) the missense change results in replacement of a similar amino acid to the wild-type protein; 4) there is not conservation of the wild-type amino acid between the human, mouse, and dog BRCA1 or BRCA2 proteins; and 5) the mutation does not occur in a putative functional domain. We will try to classify the four missense mutations as likely polymorphisms or undetermined based on the criteria listed. We will examine the frequency of each missense mutation in a set of 200 (400 chromosomes) unrelated DNA samples to see if this appears to be a polymorphism based on frequency in an unaffected population (frequency > 1%).

For the splice and two non-coding mutations, we will try to obtain another blood sample in order to extract RNA and determine if either an exon is skipped or intronic sequence is transcribed. The K3326 mutation leads to truncation of the protein, yet it is a polymorphism - it would appear that mutations in the last exon of the coding region of the gene are not deleterious. Seven other polymorphisms were identified and will be useful in other studies to determine the age of founder mutations.

Therefore, of the mutations known to be deleterious, i.e. those that result in a truncated protein product, there were 15/141 or 10.6%. If one considers that the sensitivity of SSCA is approximately 80%, then the prevalence would be 13.2%. This is still a conservative estimate, because we do not have data on all samples for all amplicons. A number of samples dropped out for a varied number of amplicons. They will be repeated and then we will recalculate the prevalence. Currently, there are 9 samples which dropped out on more than 50% of the amplicons and they include 2 samples from Italy, one sample from Texas, 5 samples from MSKCC, and 2 samples from Utah. We will likely not be able to obtain more DNA from the non-Utah samples, so that the total number screened for the calculation of prevalence may be less than 141. Five mutation carriers have a positive family history, two have a negative family history, and 7 have an unknown family history. This suggests that family history is not a good predictor of the likelihood of carrying a *BRCA2* mutation.

THIS PAGE CONTAINS UNPUBLISHED DATA

Table 2. BRCA2 mutations identified in MBC cases

Mutation	Description of nucleotide change	Type of mutation	# observations or % for polymorphisms
1002delAA	del AA	Frameshift	1
2158delA	del A	Frameshift	1
4075delGT	del GT	Frameshift	1
4359ins6	ins TGAGGA	Frameshift	1
6174delT	del T	Frameshift	5
6175delG	del G	Frameshift	1
8804delA	del A	Frameshift	1
8822insT	ins T	Frameshift	1
9325insA	ins A	Frameshift	2
9481insA	ins A	Frameshift	1
G49L	G>T	Missense	1
S2247G	A>G	Missense	1
T1505A	A>G	Missense	1
T1915M	C>T	Missense	2
A2466V	C>T	Missense - likely polymorphism	1*
D1420Y	G>T	Missense - likely polymorphism	3
N991D	A>G	Missense-likely polymorphism	4
IVS16-14T>C	T>C	Non-coding	1
IVS8+56C>T	C>T	Non-coding	1
IVS2+1G>A	G>A	Non-coding Splice	1
203G>A	G>A	Polymorphism	18%
3' UTR	A>C	Polymorphism	22%
3' UTR	delT	Polymorphism	15%
K1132K	A>G	Polymorphism	23%
IVS21-66T>C	C>T	Polymorphism- non-coding	52%
K3326X	A>T	Polymorphism- STOP	1
3' UTR	A>G	Polymorphism-likely	3
L1522L	G>A	Silent	1*
S646S	C>T	Silent	1
V2171V	C>G	Silent	1*

^{*} Same individual had three variants.

THIS PAGE CONTAINS UNPUBLISHED DATA

Male breast cancer has been reported in *BRCA1*, albeit rarely. Because the majority of our MBC cases did not have mutations in *BRCA2*, we decided to screen for mutations in *BRCA1* in DNA from 56 Utah samples for which no deleterious *BRCA2* mutations were found. The SSCA screening is complete and the gels are currently being examined to identify variant bands. During the next year, we will sequence the variant bands to identify any *BRCA1* mutations.

Plans for the final year of funding. During the next year, our focus will be 1) to obtain questionnaires from the remaining participants; 2) determine whether the missense mutations are likely polymorphisms and whether the splice and non-coding mutations are functional; 3) sequence SSCA variants from the BRCA1 mutation screening to identify mutations; 4) rescreen samples on specific amplicons which dropped out to complete the mutation screening; 5) correlate the findings for LOH with BRCA mutation results; and 6) try to extend those families where frameshift mutations were identified. We will also try to obtain an additional 30 MBC cases from outside Utah. We are working to establish a collaborative case-control study to examine variants in putative low penetrance genes which may affect the risk of breast cancer, including those genes involved in hormone metabolism, such as the estrogen and progesterone receptors. These genes would confer a low risk for breast cancer, yet because they are common, they would confer a higher attributable risk than the rare BRCA1 and BRCA2 variants.

Researchers from institutions worldwide have agreed to participate, but we have only received 12 samples for that study, in addition to our current samples.

KEY RESEARCH ACCOMPLISHMENTS:

- o Collecting the largest single-site set of MBC cases
- o Identification of BRCA2 mutations in MBC cases

REPORTABLE OUTCOMES:

Presentation: "Genetic Epidemiology of Male Breast Cancer" at the Breast Cancer Linkage Consortium Meeting, October, 1998

CONCLUSIONS:

Male breast cancer is a relatively rare disease, as shown by our difficulty in rapidly accruing a large number of living cases for this study. *BRCA2* mutation screening was completed on 141 MBC cases. Fifteen known deleterious mutations were identified (frameshift mutations which caused premature protein termination) for a prevalence of 11%. Because the sensitivity of SSCA is likely 80%, the population prevalence would be 13.2%. It does not appear that family history is a good predictor of *BRCA2* mutation status. *BRCA2* mutations appear to be more prevalent in unselected MBC cases than in unselected female breast cancer cases.

REFERENCES:

- Csokay B, Udvarhelyi N, Sulyok Z, Besznyak I, Ramus S, Ponder B, Olah E: High frequency of germ-line *BRCA2* mutations among Hungarian male breast cancer patients without family history. Cancer Res 59: 995-998, 1999.
- Friedman LS, Gayther SA, Kurosaki T, Gordon D, Noble B, Casey G, Ponder BA, Anton-Culver H: Mutation analysis of *BRCA1* and *BRCA2* in a male breast cancer population. Am J Hum Genet 60:313-319, 1997.
- Haraldsson K, Loman N, Zhang QX, Johannsson O, Olsson H, Borg A: *BRCA2* germ-line mutations are frequent in male breast cancer patients without a family history of the disease. Cancer Res 58:1367-1371, 1998.
- Mavraki E, Gray IC, Bishop DT, Spurr NK: Germline *BRCA2* mutations in men with breast cancer. Br J Cancer 76:1428-1431, 1997.
- Neuhausen S, Gilewski T, Norton L, Tran T, McGuire P, Swensen J, Hampel H, Borgen P, Brown K, Skolnick M, Shattuck-Eidens D, Jhanwar S, Goldgar D, Offit K: Recurrent *BRCA2* 6174delT mutations in Ashkenazi Jewish women affected by breast cancer. Nature Genetics, 13:126-128, 1996.
- Prechtel D, Werenskiold AK, Prechtel K, Keller G, Hofler H: Frequent loss of heterozygosity at chromosome 13q12-13 with *BRCA2* markers in sporadic male breast cancer. Diagn Mol Pathol 7:57-62, 1998.
- Stratton MR, Ford D, Neuhausen S, Seal S, Wooster R, Friedman LS, King M-C, Egilsson V, Devilee P, McMarus R, Daly PA, Smith E, Ponder BAJ, Peto J, Cannon-Albright L, Easton D, Goldgar D: Familial male breast cancer is not linked to *BRCA1* locus on chromosome 17q. Nature Genetics 7:103-106, 1994.
- Tavtigian SV, Simard J, Rommens J, Shattuck-Eidens D, Couch F, Neuhausen S, Merajver S, Thorlacius S, Offit K, Stoppa-Lyonnet D, Belanger C, Bell R, Berry S, Bodgen R, Chen Q, Davis T, Dumont M, Frye C, Hattier T, Jammulapati S, Janecki T, Jiang P, Kehrer R, Leblanc J-F, Mitchell JT, Peng Y, Samson C, Schroeder M, Snyder S, Stringfellow M, Stroup C, Swedlund B, Swensen J, Teng D, Thomas A, Tran T, Tranchant M, Weaver-Feldhaus J, Wong AKC, Shizuya H, Eyfjord JE, Cannon Albright L, Labrie F, Skolnick M, Weber B, Kamb A, Goldgar DE: The complete *BRCA2* gene and mutations in 13q-linked kindreds. Nature Genetics, 12:333-337, 1996.
- Wooster R, Bignell G, Lancaster J, Swift S, Seal S, Mangion J, Collins N, Gregory S, Gumbs C, Micklem G et al: Identification of the breast cancer susceptibility gene *BRCA2*. Nature 378 (6559): 789-792, 1995.

Wooster R, Neuhausen S, Mangion J, Quirk Y, Ford D, Collins N, Nguyen K, Seal S, Tran T, Averill D, Fields P, Marshall G, Narod S, Lenoir G, Lynch H, Devilee P, Cornelisse CJ, Menko FH, Daly PA, Ormiston W, McManus R, Pye C, Cannon Albright L, Peto J, Ponder BAJ, Skolnick MH, Easton DF, Goldgar DE, Stratton MR: Localisation of a breast cancer susceptibility gene (*BRCA2*) to chromosome 13q12-13 by genetic linkage analysis. Science 265:2088-2090, 1994.

DEPARTMENT OF THE ARMY



MILLIAL RESEARCH AND MATERIEL COMMAND 504 SCOTT STREET -- LIDETRICK, MARYLAND 21/02-5012

MCMR-RMI-S (70 15

26 Aug 02

MEMORANDUM FOR Administrator, Defense Technical Information Center (DTIC-OCA), 8725 John J. Kingman Road, Fort Belvoir, VA 22060-6218

SUBJECT: Request Change in Distribution Statement

- 1. The U.S. Army Medical Research and Materiel Command has reexamined the need for the limitation assigned to technical reports written for this Command. Request the limited distribution statement for the enclosed accession numbers be changed to "Approved for public release; distribution unlimited." These reports should be released to the National Technical Information Service.
- 2. Point of contact for this request is Ms. Kristin Morrow at DSN 343-7327 or by e-mail at Kristin.Morrow@det.amedd.army.mil.

FOR THE COMMANDER:

Encl

PHYLIX M. RINEHART
Deputy Chief of Staff for
Information Management

ADB274369	ADB274596
ADB256383	ADB258952
ADB264003	ADB265976
ADB274462	ADB274350
ADB266221	ADB274346
ADB274470	ADB257408
ADB266221	ADB274474
ADB274464	ADB260285
ADB259044	ADB274568
ADB258808	ADB266076
ADB266026	ADB274441
ADB274658	ADB253499
ADB258831	ADB274406
ADB266077	ADB262090
ADB274348	ADB262030
ADB274273	ADB274372
ADB258193	11002/15/2
ADB274516	
ADB259018	
ADB231912	
ADB244626	
ADB256677	
ADB229447	
ADB240218	
ADB258619	
ADB259398	
ADB275140	
ADB240473	
ADB254579	
ADB277040	
ADB249647	
ADB275184	
ADB259035	
ADB244774	
ADB258195	
ADB244675	
ADB257208	
ADB267108	
ADB244889	
ADB257384	
ADB270660	
ADB274493	
ADB261527	
ADB274286	
ADB274269	
ADB274592	
3555	

ADB274604